




Product Sheet


# *Aspergillus brasiliensis* (ATCC® 16404-MINI-PACK™)

Please read this **FIRST**



Storage Temp.  
**-70°C or colder,**  
store upright.  
Short-term  
storage at **-20°C** is  
acceptable for up  
to **9 months.**

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Biosafety Level  
**1**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Aspergillus brasiliensis* (ATCC® 16404-MINI-PACK™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** WLRI 034(120) [CBS 733.88, DSM 1387, DSM 1988, IFO 9455, IMI 149007, NCPF 2275]

**Deposited Name:** *Aspergillus niger* van Tieghem

**Product Description:** ATCC® 16404-MINI-PACK™ consists of 6 ready-to-use vials of ATCC® 16404™ frozen in 200 µL of glycerol stock, eliminating the need to rehydrate and culture the strain prior to use. Each vial is provided with a 2-D barcode for easy storage and tracking, as well as peel-off labels for fast and reliable recordkeeping.

## Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 336: Potato dextrose agar (PDA)

ATCC® Medium 325: Malt extract agar (Blakeslee's formula)

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

## Growth Conditions

**Temperature:** 20°C to 25°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

Frozen mini-cryovials packed in dry ice should either be thawed immediately for use or stored at or below -70°C until the expiration date printed on the label. Short-term storage at -20°C is acceptable for up to 9 months.

1. To thaw a frozen mini-cryovial, place the vial upright in a **25°C to 30°C** water bath, until just thawed (**approximately 2-3 minutes**). Immerse the mini-cryovial just sufficient to cover the frozen material. Do not agitate the mini-cryovial.
2. Immediately after thawing, wipe down the mini-cryovial with 70% ethanol and aseptically transfer at least 50 µL (or 2-3 agar cubes) of the content onto a plate or broth with the recommended medium.
3. Discard the empty vial. Do not refreeze any unused portion as it will result in a loss of viability.
4. Incubate the inoculum/strain at the temperature and conditions recommended. Inspect for growth of the inoculum/strain regularly. Viability is typically noticeable after 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** Colonies initially white or yellowish, mycelium growing rapidly producing a dense layer of erect smooth-stiped, conidiophores terminated by globose vesicles bearing phialides (uniseriate) or metulae with phialides (biseriate) which produce dry chains of conidia. Reverse pale to grayish or greenish yellow. Vesicles radiate, initially pale, becoming dark brown to black. Conidia spherical, mid-to-dark brown, highly roughened with ridges and blunt or pointed protuberances, (3-4-5(-6) µm in diameter. Sporulation may be inhibited when grown in vessels with reduced gas exchange. Colonies may exhibit sectoring with areas of varying levels of sporulation. Use of freshly produced spores as inoculum should reduce sectoring.

## Notes

This strain was identified as belonging to the new species *Aspergillus brasiliensis* (see Varga et al. 2007 and Houseknecht et al., 2008.)

Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGC GGGTCTTTGGGCCAACCTCCATCC  
GTGTCTATTGTACCCTGTTGCTTCGGCGGGCCCGCGCTTGTCCGCCCGGGGGGGCGCCTCTGCCCC  
CCGGGCCCGTGC CCGCCGGAGACCCCAACACGAACCTGTCTGAAAGCGTG CAGTCTGAGTCGATTGT  
TTGCAATCAGTTAAACTTTCAACAATGGATCTCTTGGTTCCGGCATCGATGAAGAACG CAGCGAAAT  
GCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGG  
TATTCGGGGGGGCATGCCTGTCCGAGCGTATTGCTGCCTCAAGCCCGCTTGTGTGTTGGGTCGCCG  
TCCCCTCTCTCCGGGGGACGGGCCCGAAAGCAGCGCGGCACCCGCTCCGATCCTCGAGCGTATG  
GGGCTTGTACATGCTCTGTAGGATTGGCCGGCGCCTGCCACGTTTTCCAACCATCTTTCCAGGTTG



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ACCTCGGATCAGGTAGGGATACCCGCTGAACTTAAGCATATCAATAA

D1D2 region of the 28S Ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG  
AGCTCAAATTTGAAAGCTGGCTCCTTCGAGTCCGCATTGTAATTTGCAGAGGATGCTTTGGGTGCGGC  
CCCCGTCTAAGTGCCCTGGAACGGGCGTCAGAGAGGGTGAGAATCCCGTCTTGGGCGGGGTGTCCGT  
GCCCCGTGTAAGCTCCTTCGACGAGTGTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA  
TCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCAC  
TTTAAAAGAGAGTAAACAGCACGTGAAATTTGTTGAAAGGGAAGCGCTTGCAGCCAGACTCGCCCG  
CGGGGTTACGCCGCAATTCGTGCCGGTGTACTTCCCGTGGGCGGGCCAGCGTCTTGGGCGGCCG  
GTCAAAGGCCCTGGAATGTAGTGCCCTCCGGGCACCTTATAGCCAGGGGTGCAATGCGGCCAGCCT  
GGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCGTAACGAC

## Isolation

Blueberry, North Carolina

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

## ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## Disclaimers

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

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